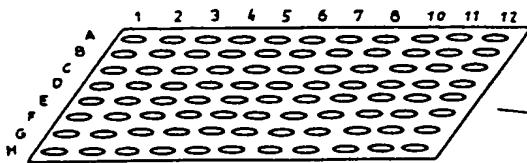
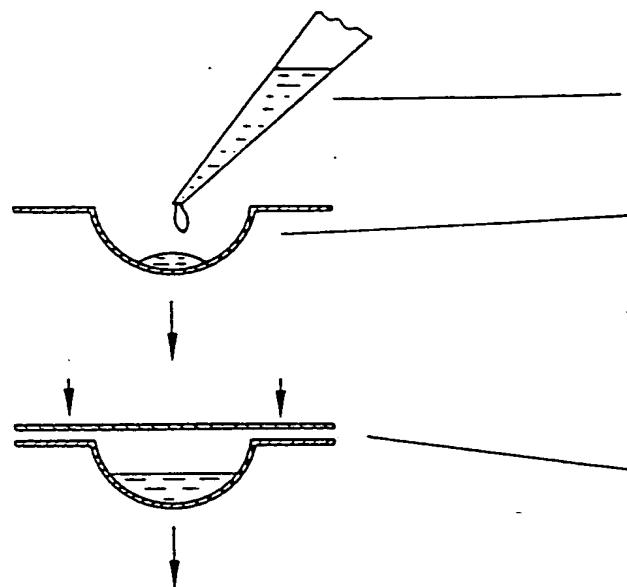


-1/12-

FIG. 1

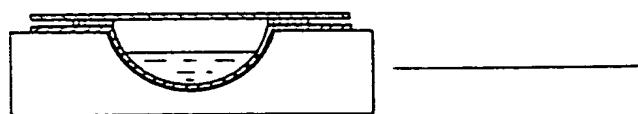
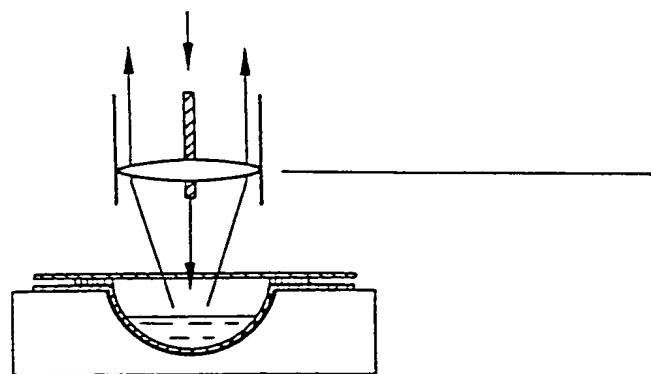
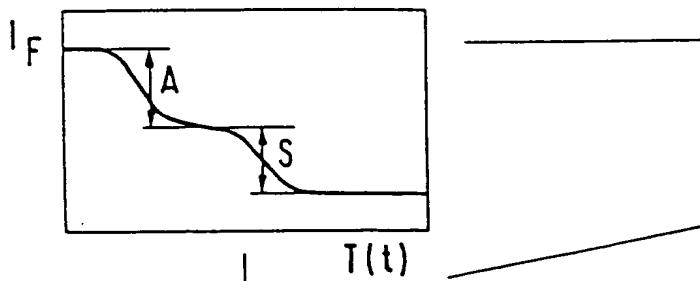


BASE SHEET

SAMPLE, CA. 50  $\mu$ lLYOPHILIZED  
AMPLIFICATION  
REAGENTS

- ENZYMES
- BUFFER
- PRIMER
- STANDARD COPIES
- LABELED PROBE

SEALING

CONTROLLABLE  
THERMOBLOCKON-LINE LASER  
DETECTION SYSTEMTIME-RESOLVED  
FLUORESCENCE INTENSITY

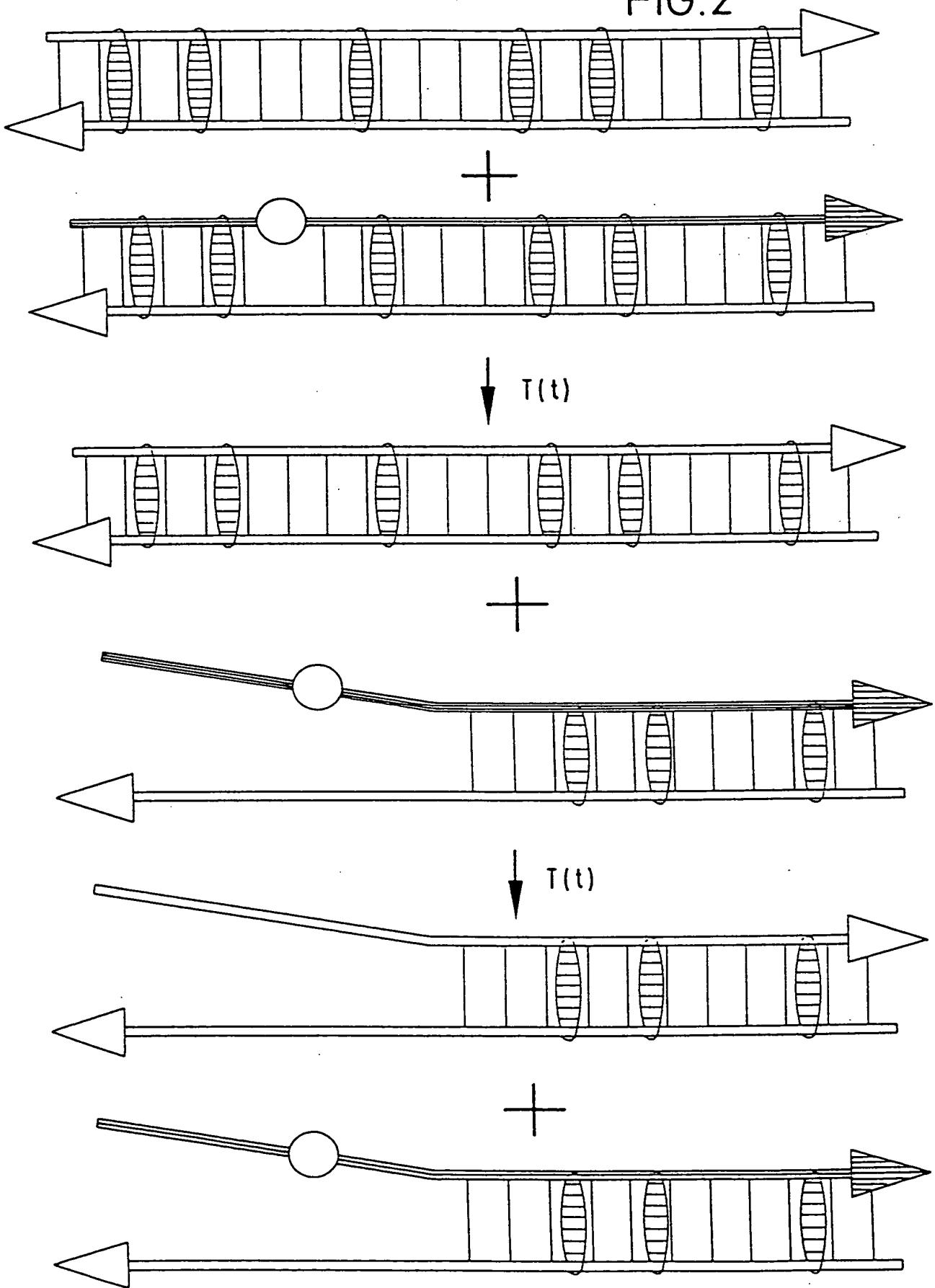
OPPORTUNITY TO ARCHIVE,  
REPEAT ANALYSES,  
DISPOSE WITHOUT  
OPENING REACTION CHAMBER

ANALYSIS  
PRINTED REPORT

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- 2 / 12 -

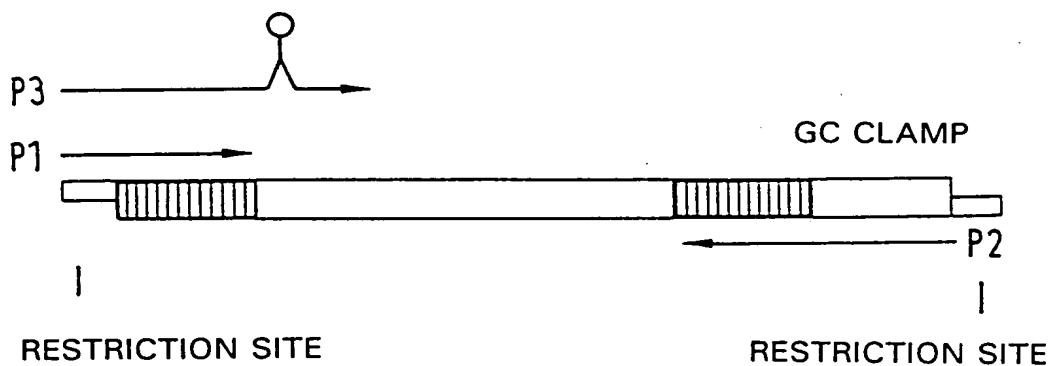
FIG. 2



- 3 / 12 -

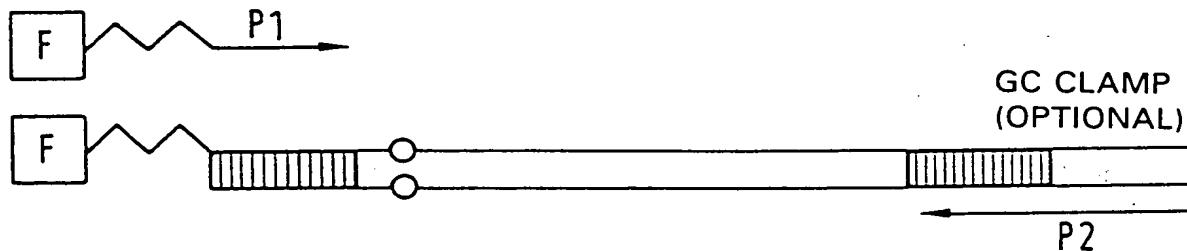
FIG.3

TEMPERATURE GEL ELECTROPHORESIS



a)

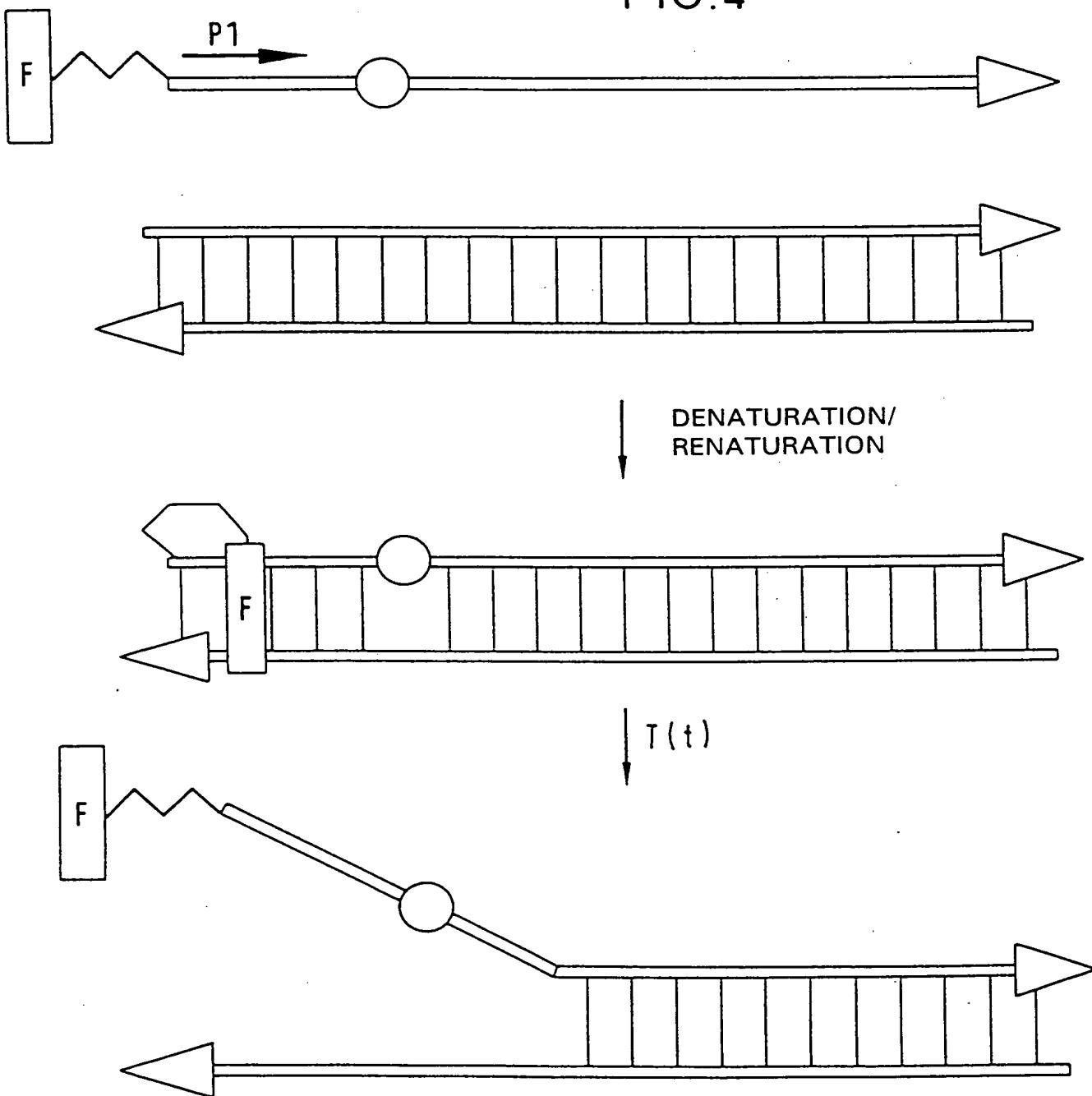
PROBE CONSTRUCTION ACCORDING TO INVENTION



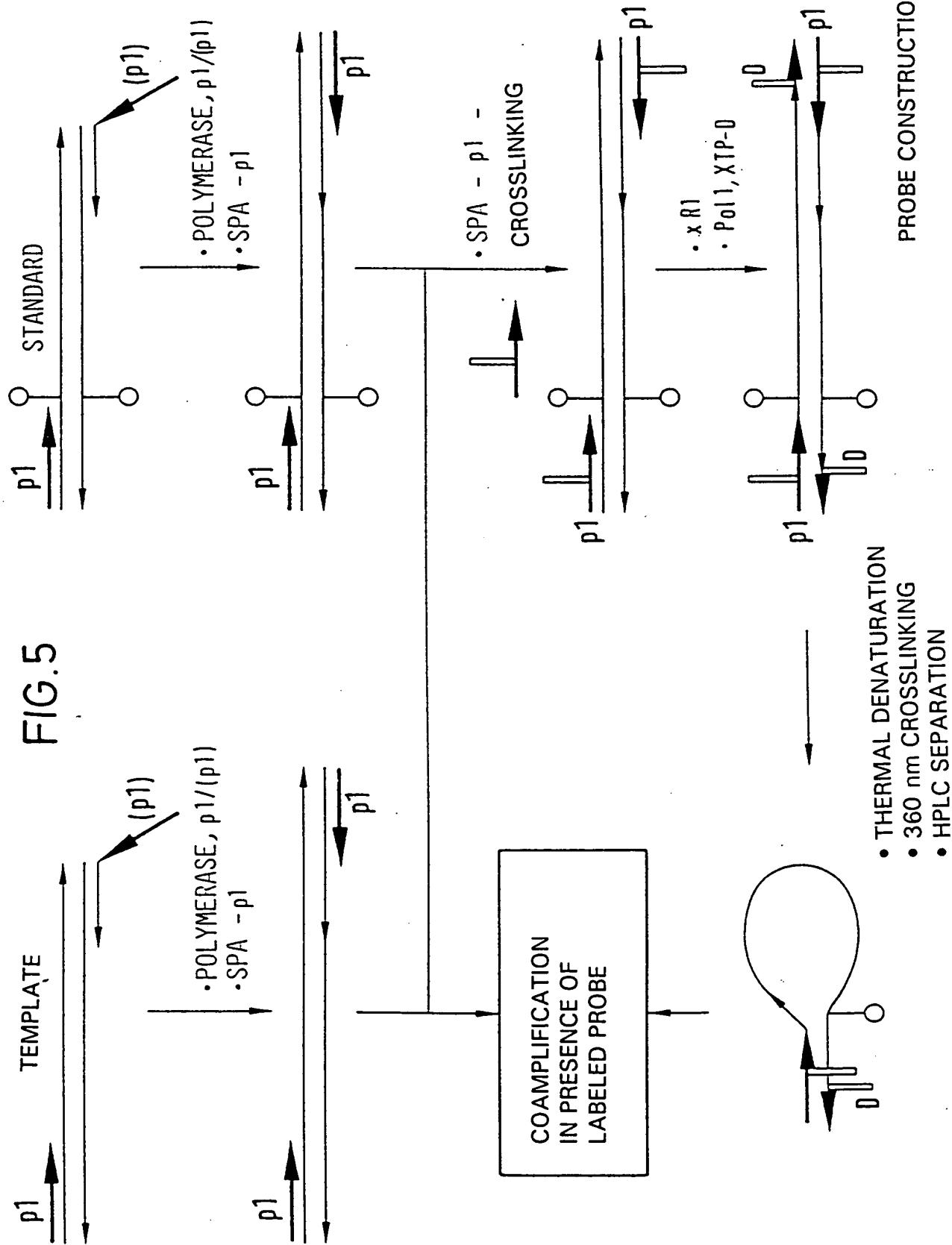
b)

-4/12-

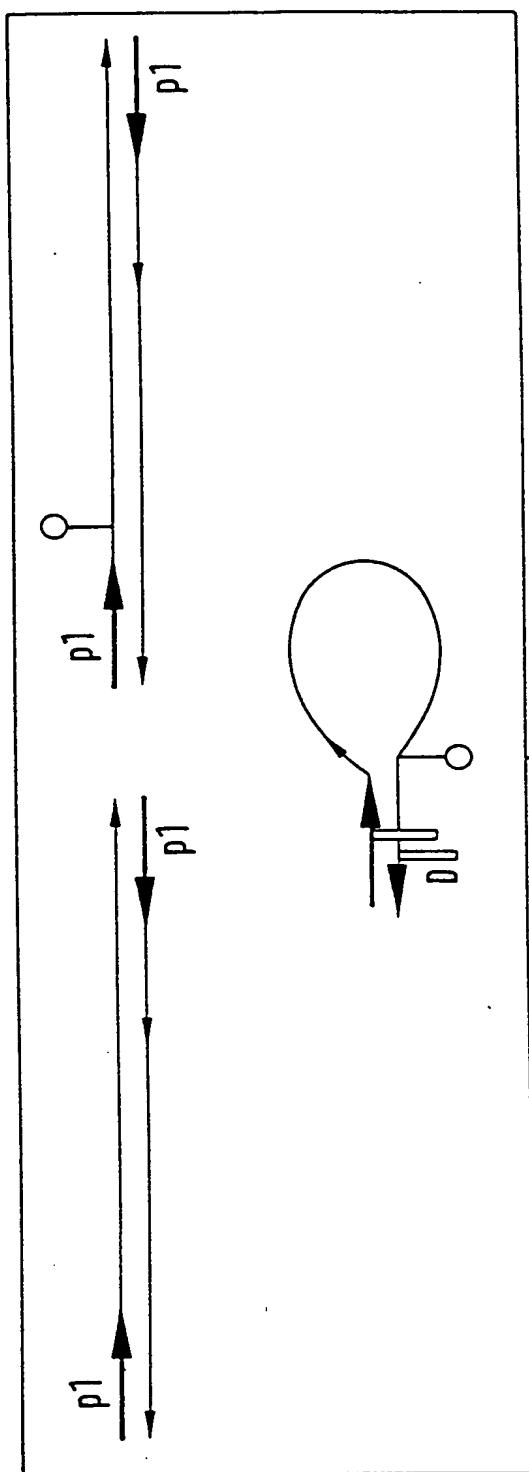
FIG.4



- 5 / 12 -

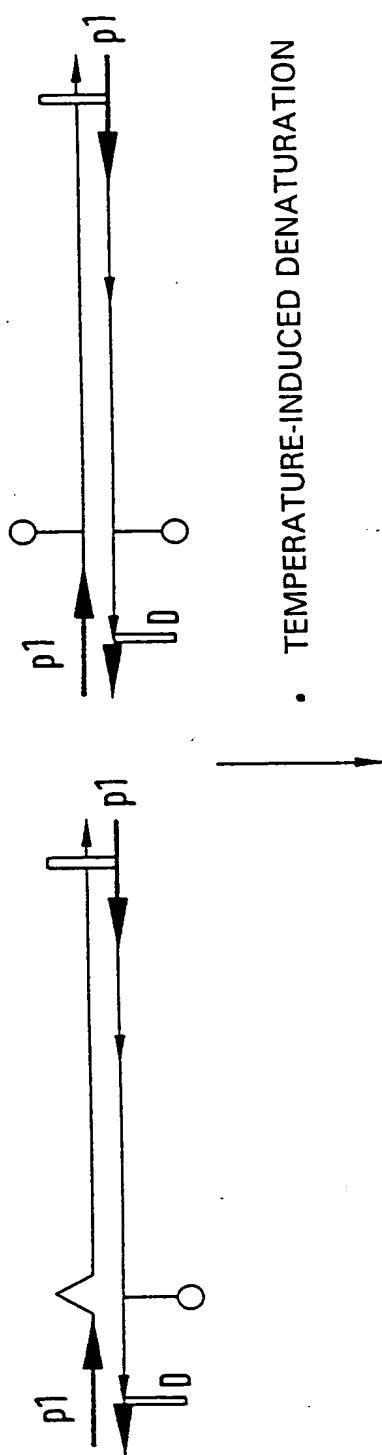


- 6 / 12 -



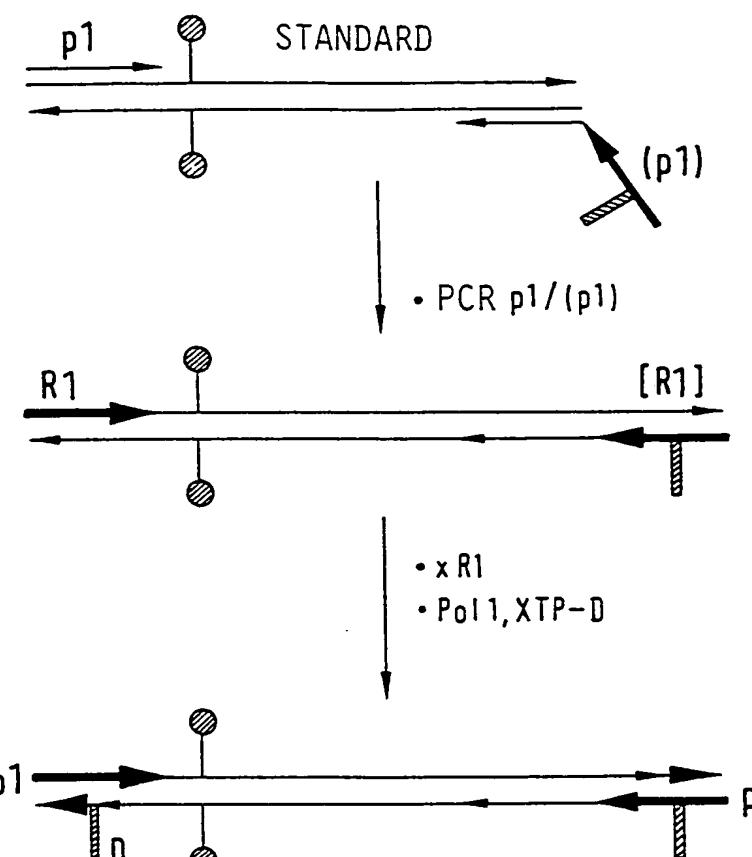
- 254 - 310 nm
- DENATURATION/RENATURATION
- 360 nm

FIG. 6



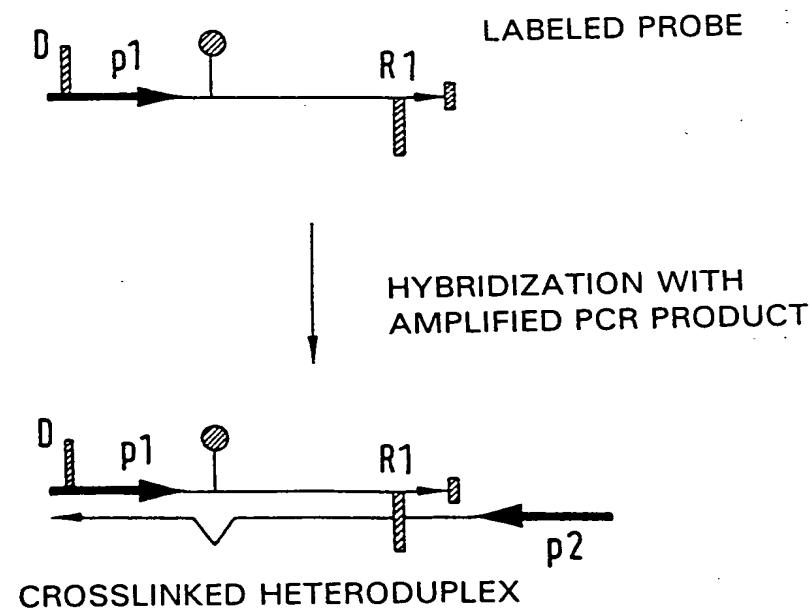
-7/12-

FIG. 7



## PROBE CONSTRUCTION

FIG. 8



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EXPERIMENTAL RESULTS (SCHEMATIC)

HETERODUPLEX I

STANDARD HOMODUPLEX

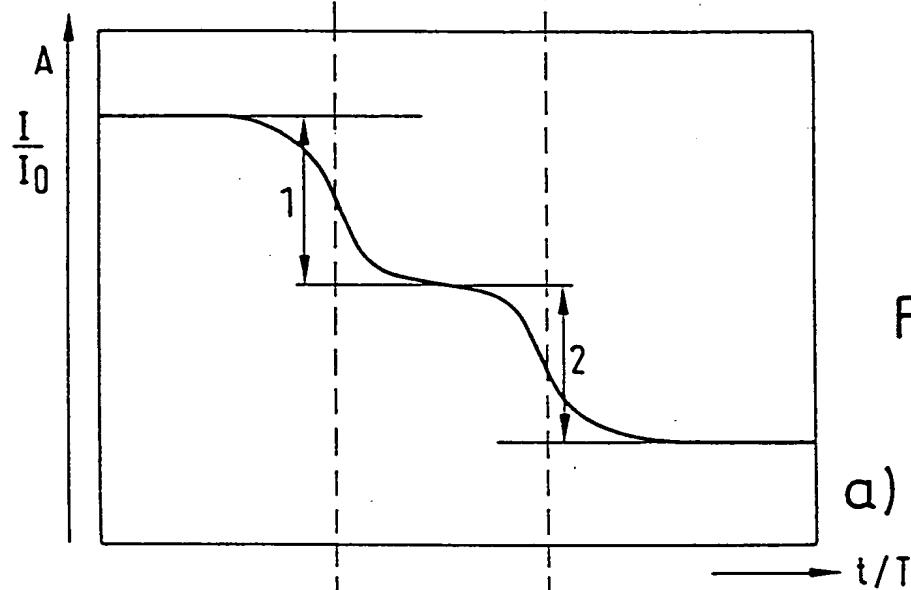
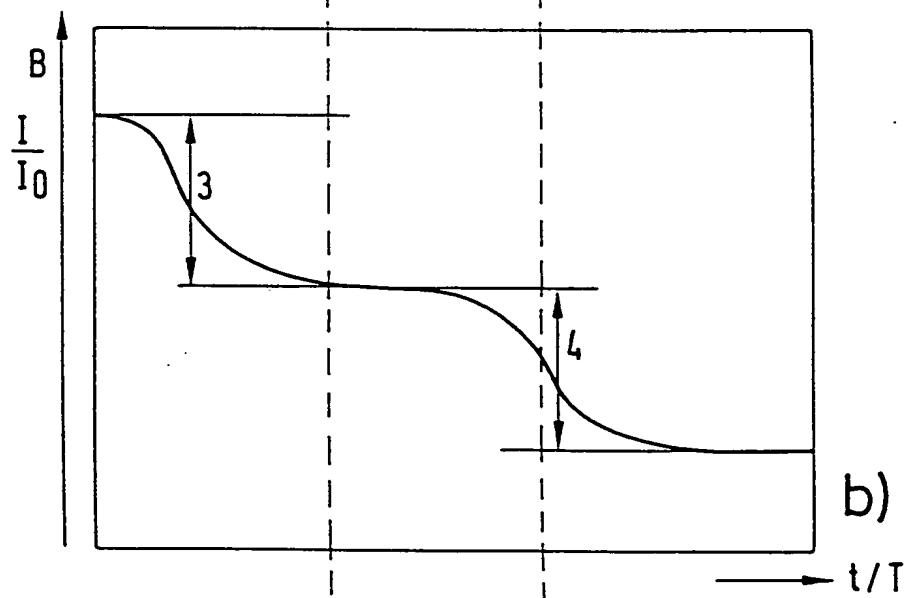


FIG.9

a)



b)

- 9 / 12 -

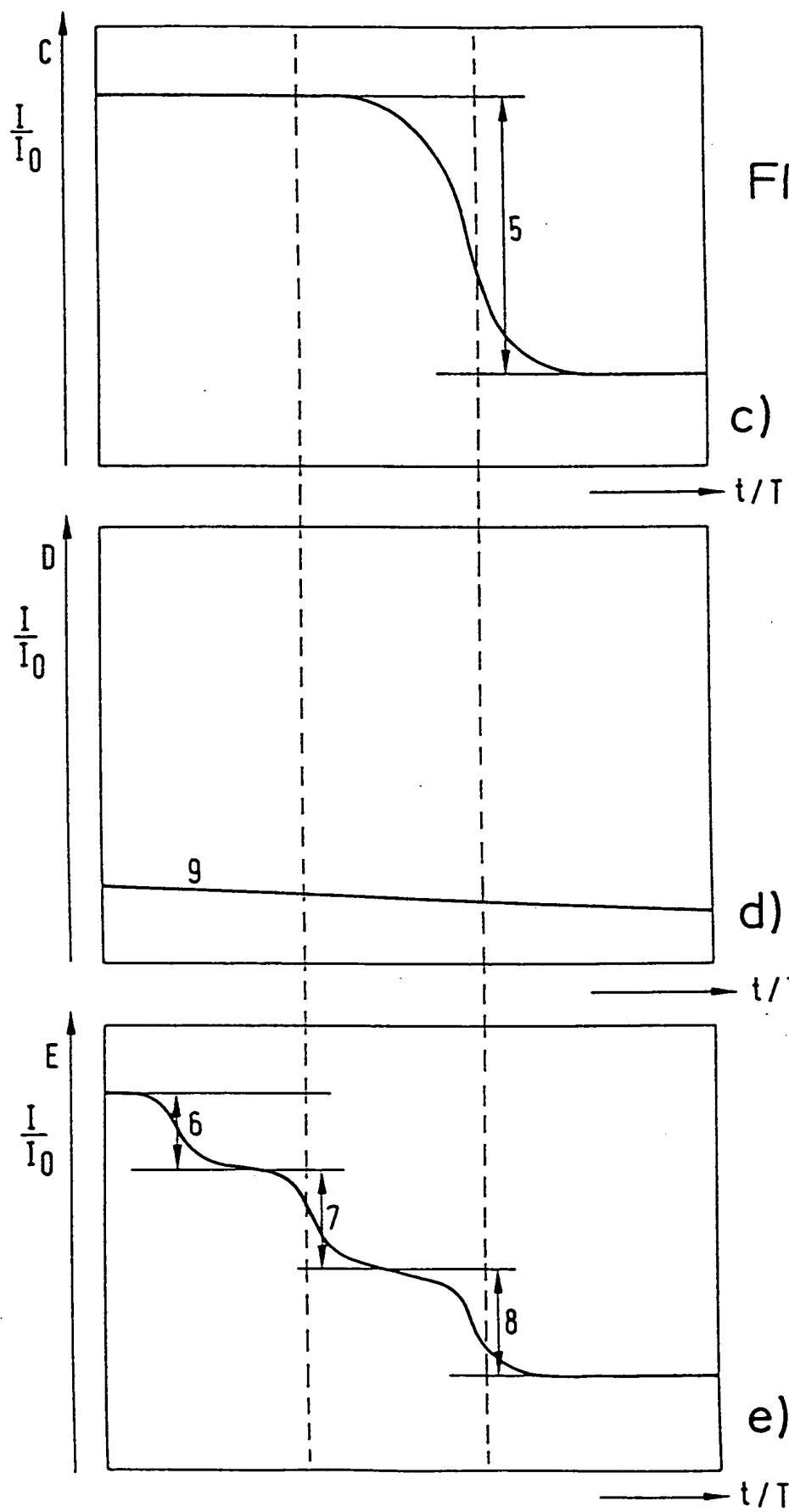
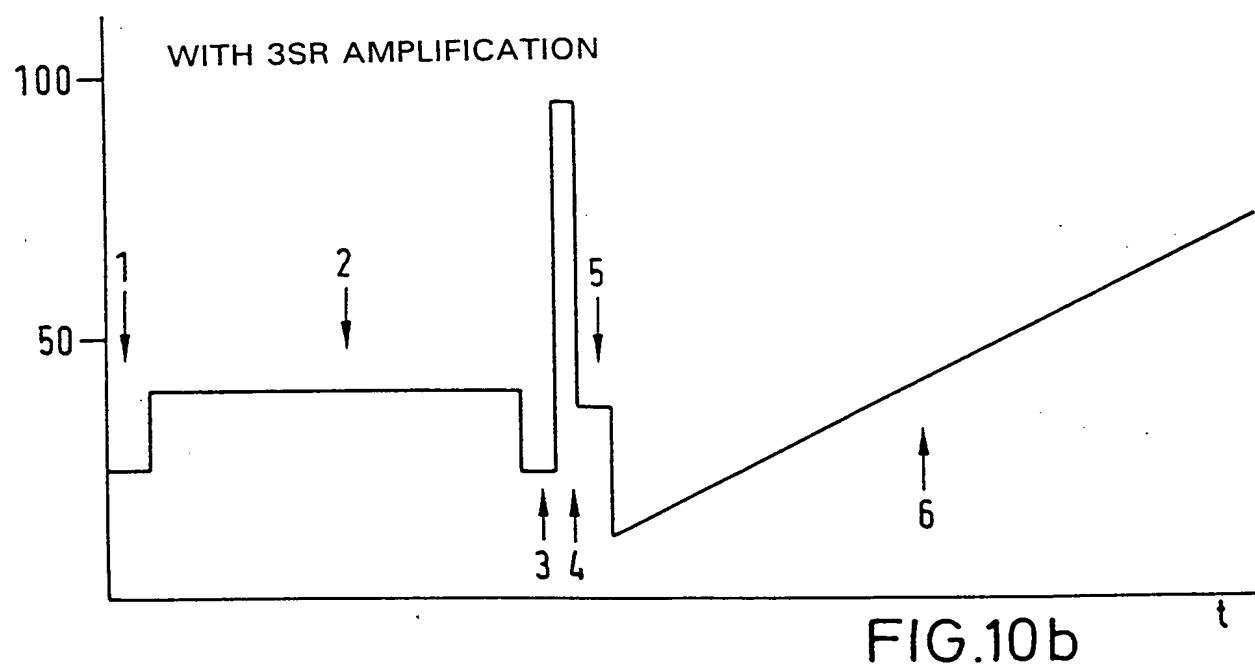
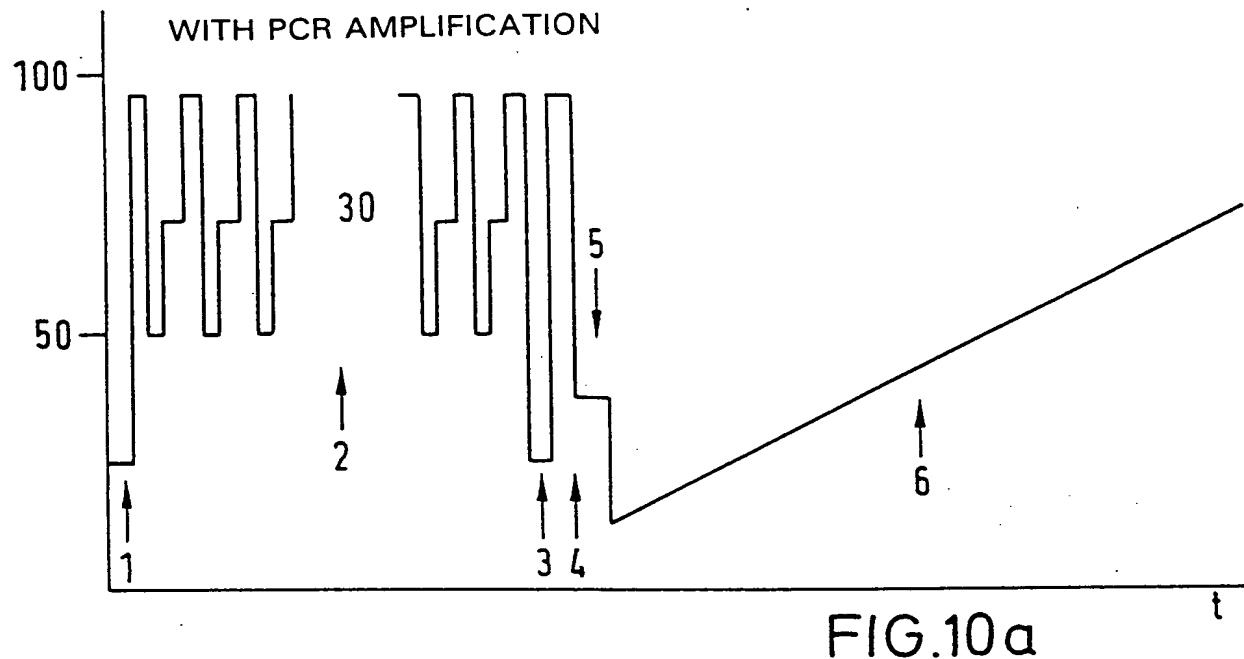


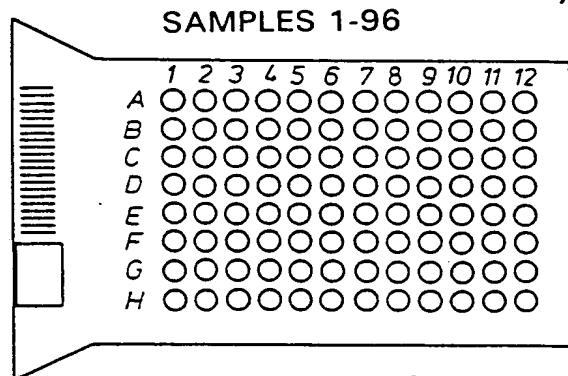
FIG. 9

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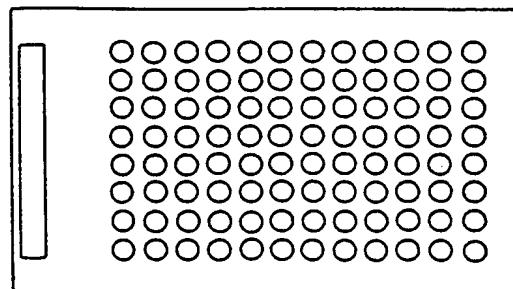


-11/12-

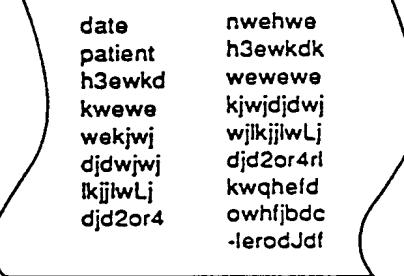
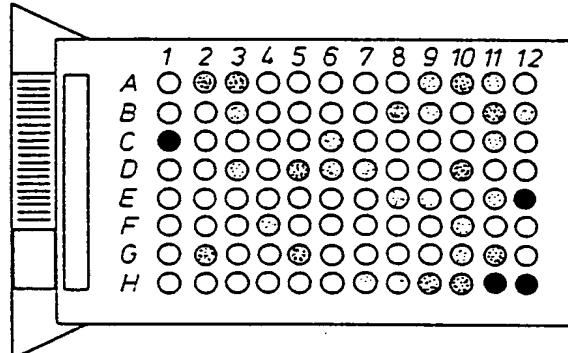
ANALYTICS



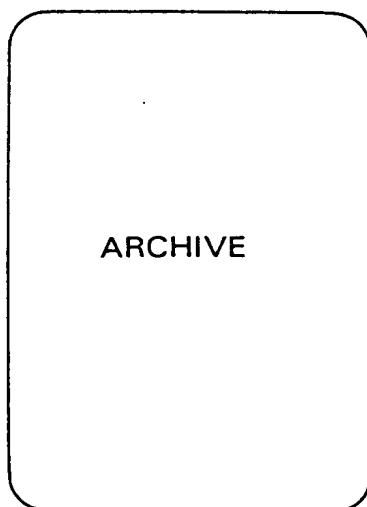
MT BASE SHEET  
(BAR CODE)



COVER SHEET WITH PROBE  
(MAGNETIC CODE)



ANALYSIS  
(COMPUTER REPORT)



RESEARCH AND  
MOLECULAR ANALYTICS

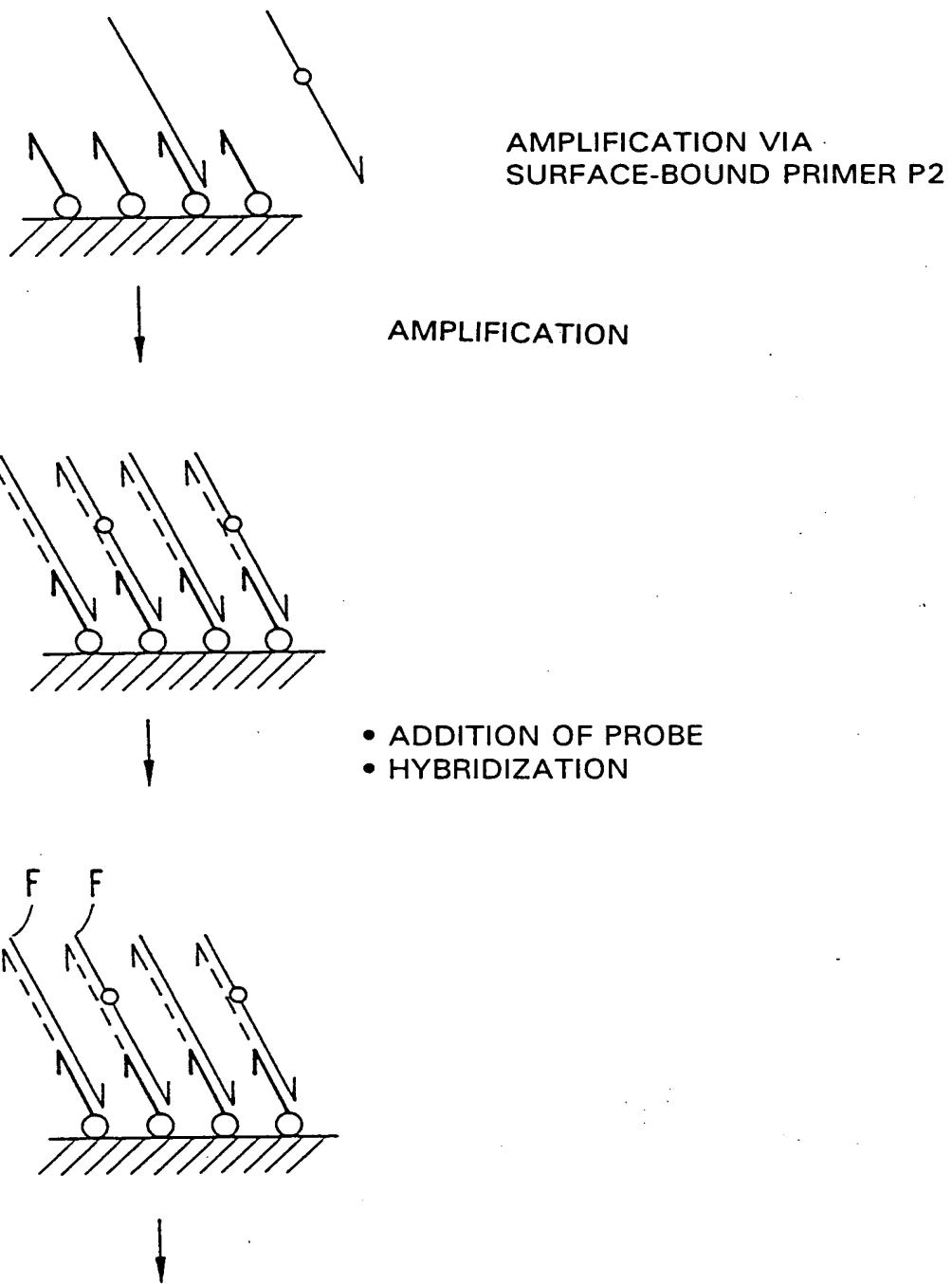
- TEMPERATURE
- GEL ELECTROPHORESIS
- SEQUENCING

FIG.11

-12/12-

DILUTION ASSAY

FIG.12



TEMPERATURE-INDUCED SEQUENTIAL DISSOCIATION  
RESULTS IN DILUTION OF SURFACE-BOUND  
FLUORESCENT DYES OR THEIR CONCENTRATION  
IN SOLUTION